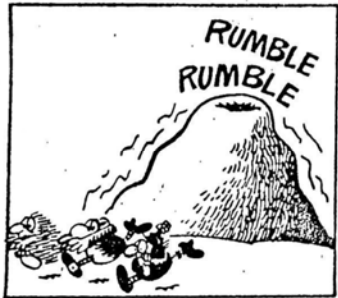


BROOM-HILDA



Mafic

thinner
low silica content
(basaltic)
high ferromagnesian
allows gas to bubble out
smooth flowing eruptions
volcanoes formed:

shield



lava plateau
flood basalt

Felsic

thicker
high silica content
(silicic, rhyolitic, granitic)
low ferromagnesian
traps gases
→ explosive eruptions

volcanoes formed:

composite (strato volcanoes)



cinder cones

→ explosive due to
high magma

lava plateau
flood basalt
cinder cones

→ water mixed
in causes
explosiveness

hotter magma

denser/heavier (Fe, Mg)

darker coloured rocks

cinder cones
→ explosive due to
thick magma

volcanic domes
- toothpaste piling up

Cooler magma

less dense

lighter coloured rocks